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TITLE: ANTIBACTERIAL POLYMER AND ITS PRODUCTION METHOD, ANTIBACTERIAL POLYMER COATING FILM AND ITS MAKING METHOD, AND ARTICLE HAVING THE COATING FILM ON ITS SURFACE

PUBN-DATE: April 15, 2004

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide an antibacterial polymer and its producing method, an antibacterial polymer coating film and its making method, and an article applied with the antibacterial polymer coating film.

SOLUTION: The antibacterial polymer is comprised of a polyimide, a polyamide, a polyurea, or a polyazomethine, which is a product of a deposition polymerization reaction of a diaminobenzoic acid monomer or a halogen element-containing diamine monomer and a monomer which can react with the former monomers. The producing method of the antibacterial polymer comprises a vapor deposition polymerization of a gas obtained by vaporizing the diaminobenzoic acid monomer or the halogen element-containing diamine monomer and a gas obtained by vaporizing the monomer which can react with the former monomers on the surface of the article to be deposited in vacuum.

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